## WE CLAIM:

- An airlaid composite absorbent web comprising a homogenous mixture of binder and particles of coated superabsorbent.
- The airlaid composite absorbent web according to Claim 1
  wherein the particles of coated superabsorbent material comprise from about 30% to
  about 97% superabsorbent material and from about 70% to about 3% cellulose fiber
  or other materials.
- The airlaid composite absorbent web according to Claim 1
   wherein the binder comprises less than about 40 weight percent of the web.
- The airlaid composite absorbent web according to Claim 1
   wherein the binder comprises less than about 20 weight percent of the web.
- The airlaid composite absorbent web according to Claim 1
   wherein the binder comprises less than about 10 weight percent of the web.
- The airlaid composite absorbent web according to Claim 3 wherein the binder is a thermoplastic fiber.

- The airlaid composite absorbent web according to Claim 6
   wherein the thermoplastic fibers are bicomponent fibers.
- The airlaid composite absorbent web according to Claim 6
   wherein the thermoplastic fibers are PE/PET staple fibers.
- The airlaid composite absorbent web according to Claim 3 wherein the binder comprises meltblown fibers.
- The airlaid composite absorbent web according to Claim 1
   wherein the binder comprises elastomeric fibers.
- 11. The airlaid composite absorbent web according to Claim 10 wherein the elastomeric fibers comprise a polymer selected from the group including styrene-isoprene-styrene block copolymers, styrene-butadiene-styrene block copolymers, styrene-ethylene/butylene-styrene block copolymers, styrene-ethylene/propylene-styrene block copolymers, polyurethanes, elastomeric polyamides, elastomeric polyesters, elastomeric polyolefin homopolymers and copolymers, atactic polypropylenes, ethylene vinyl acetate copolymers, single-site or metallocene catalyzed polyolefins having a density less than about 0.89 grams/cc, and combinations thereof.

- 12. The airlaid composite absorbent web according to Claim 1 wherein the absorbent composite web is between about 50 gsm and about 1500 gsm basis weight.
- 13. The airlaid composite absorbent web according to Claim 1 wherein the absorbent composite web comprises greater than or equal to about 2 weight percent thermoplastic binder fiber and less than or equal to about ninety eight weight percent particles of coated superabsorbent.
- 14. The airlaid composite absorbent web according to Claim 13 further comprising between about 30 weight percent and about 85 weight percent coated superabsorbent material.
- 15. The airlaid composite absorbent web according to Claim 1 further comprising at least one of non-coated superabsorbent materials, pulp fibers, synthetic fibers, odor control agents, and other natural or synthetic materials.
- 16. The airlaid composite absorbent web according to Claim 1 wherein the absorbent composite web has an absorbent capacity of between about 15 g/g and about 40 g/g.

- 17. The airlaid composite absorbent web according to Claim 1 wherein the composite absorbent web has a density of between about 0.1 g/cc and about 0.5 g/cc.
- 18. An airlaid composite absorbent web comprising a homogenous mixture of binder and particles of cellulose-coated superabsorbent.
- 19. The airlaid composite absorbent web according to Claim 18 wherein the particles of cellulose-coated superabsorbent material comprise from about 30% to about 97% superabsorbent material and from about 70% to about 3% cellulose fiber.
- 20. The airlaid composite absorbent web according to Claim 18 wherein the binder comprises less than about 40 weight percent of the web.
- 21. The airlaid composite absorbent web according to Claim 18 wherein the binder comprises less than about 20 weight percent of the web.
- 22. The airlaid composite absorbent web according to Claim 18 wherein the binder comprises less than about 10 weight percent of the web.

- 23. The airlaid composite absorbent web according to Claim 20 wherein the binder comprises thermoplastic fibers.
- 24. The airlaid composite absorbent web according to Claim 23 wherein the thermoplastic fibers are bicomponent fibers.
- 25. The airlaid composite absorbent web according to Claim 23 wherein the thermoplastic fibers are PE/PET staple fibers.
- 26. The airlaid composite absorbent web according to Claim 20 wherein the binder comprises meltblown fibers.
- 27. The airlaid composite absorbent web according to Claim 18 wherein the binder comprises elastomeric fibers.
- 28. The airlaid composite absorbent web according to Claim 27 wherein the elastomeric fibers comprise a polymer selected from the group including styrene-isoprene-styrene block copolymers, styrene-butadiene-styrene block copolymers, styrene-ethylene/butylene-styrene block copolymers, styrene-ethylene/propylene-styrene block copolymers, polyurethanes, elastomeric polyamides, elastomeric polyesters, elastomeric polyolefin homopolymers and copolymers, atactic

polypropylenes, ethylene vinyl acetate copolymers, single-site or metallocene catalyzed polyolefins having a density less than about 0.89 grams/cc, and combinations thereof.

- 29. The airlaid composite absorbent web according to Claim 18 wherein the absorbent composite web is between about 50 gsm and about 1500 gsm basis weight.
- 30. The airlaid composite absorbent web according to Claim 18 wherein the absorbent composite web comprises greater than or equal to about 2 weight percent thermoplastic binder fiber and less than or equal to about ninety eight weight percent particles of coated superabsorbent.
- 31. The airlaid composite absorbent web according to Claim 30 further comprising between about 30 weight percent and about 85 weight percent coated superabsorbent material.
- 32. The airlaid composite absorbent web according to Claim 18 further comprising at least one of non-coated superabsorbent materials, pulp fibers, synthetic fibers, odor control agents, and other natural or synthetic materials.

- 33. The airlaid composite absorbent web according to Claim 18 wherein the absorbent composite web has an absorbent capacity of between about 15 g/g and about 40 g/g.
- 34. The airlaid composite absorbent web according to Claim 18 wherein the composite absorbent web has a density of between about 0.1 g/cc and about 0.5 g/cc.
- 35. An airlaid composite absorbent web consisting essentially of a homogenous mixture of binder and particles of coated superabsorbent.
- 36. The airlaid composite absorbent web according to Claim 35 wherein the particles of coated superabsorbent material comprise from about 30% to about 97% superabsorbent material and from about 70% to about 3% cellulose fiber.
- 37. The airlaid composite absorbent web according to Claim 35 wherein the binder comprises less than about 40 weight percent of the web.
- 38. The airlaid composite absorbent web according to Claim 35 wherein the binder matrial comprises less than about 20 weight percent of the web.

- 39. The airlaid composite absorbent web according to Claim 35 wherein the binder comprises less than about 10 weight percent of the web.
- 40. The airlaid composite absorbent web according to Claim 37 wherein the binder comprises thermoplastic fibers.
- 41. The airlaid composite absorbent web according to Claim 40 wherein the thermoplastic fibers are bicomponent fibers.
- 42. The airlaid composite absorbent web according to Claim 40 wherein the thermoplastic fibers are PE/PET staple fibers.
- 43. The airlaid composite absorbent web according to Claim 37 wherein the binder comprises meltblown fibers.
- 44. The airlaid composite absorbent web according to Claim 35 wherein the binder comprises elastomeric fibers.
- 45. The airlaid composite absorbent web according to Claim 44 wherein the elastomeric fibers comprise a polymer selected from the group including styrene-isoprene-styrene block copolymers, styrene-butadiene-styrene block

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copolymers, styrene-ethylene/butylene-styrene block copolymers, styrene-ethylene/propylene-styrene block copolymers, polyurethanes, elastomeric polyamides, elastomeric polyesters, elastomeric polyolefin homopolymers and copolymers, atactic polypropylenes, ethylene vinyl acetate copolymers, single-site or metallocene catalyzed polyolefins having a density less than about 0.89 grams/cc, and combinations thereof.

- 46. The airlaid composite absorbent web according to Claim 35 wherein the absorbent composite web is between about 50 gsm and about 1500 gsm basis weight.
- 47. The airlaid composite absorbent web according to Claim 35 wherein the absorbent composite web comprises greater than or equal to about 2 weight percent thermoplastic binder fiber and less than or equal to about ninety eight weight percent particles of cellulose-coated superabsorbent.
- 48. The airlaid composite absorbent web according to Claim 35 further comprising between about 30 weight percent and about 85 weight percent cellulose-coated superabsorbent material.

- 49. The airlaid composite absorbent web according to Claim 35 further comprising at least one of non-coated superabsorbent materials, pulp fibers, synthetic fibers, odor control agents, and other natural or synthetic materials.
- 50. The airlaid composite absorbent web according to Claim 35 wherein the absorbent composite web has an absorbent capacity of between about 15 g/g and about 40 g/g.
- 51. The airlaid composite absorbent web according to Claim 35 wherein the composite absorbent web has a density of between about 0.1 g/cc and about 0.5 g/cc.
- 52. An airlaid composite absorbent web consisting essentially of a homogenous mixture of binder and particles of cellulose-coated superabsorbent.
- 53. The airlaid composite absorbent web according to Claim 52 wherein the particles of cellulose-coated superabsorbent material comprise from about 30% to about 97% superabsorbent material and from about 70% to about 3% cellulose fiber.

- 54. The airlaid composite absorbent web according to Claim 52 wherein the binder comprises less than about 40 weight percent of the web.
- 55. The airlaid composite absorbent web according to Claim 52 wherein the binder comprises less than about 20 weight percent of the web.
- 56. The airlaid composite absorbent web according to Claim 52 wherein the binder comprises less than about 10 weight percent of the web.
- 57. The airlaid composite absorbent web according to Claim 54 wherein the binder comprises thermoplastic fibers.
- 58. The airlaid composite absorbent web according to Claim 57 wherein the thermoplastic fibers are bicomponent fibers.
- 59. The airlaid composite absorbent web according to Claim 57 wherein the thermoplastic fibers are PE/PET staple fibers.
- 60. The airlaid composite absorbent web according to Claim 54 wherein the binder comprises meltblown fibers.

- 61. The airlaid composite absorbent web according to Claim 52 wherein the binder comprises elastomeric fibers.
- 62. The airlaid composite absorbent web according to Claim 61 wherein the elastomeric fibers comprise a polymer selected from the group including styrene-isoprene-styrene block copolymers, styrene-butadiene-styrene block copolymers, styrene-ethylene/butylene-styrene block copolymers, styrene-ethylene/propylene-styrene block copolymers, polyurethanes, elastomeric polyamides, elastomeric polyesters, elastomeric polyolefin homopolymers and copolymers, atactic polypropylenes, ethylene vinyl acetate copolymers, single-site or metallocene catalyzed polyolefins having a density less than about 0.89 grams/cc, and combinations thereof.
- 63. The airlaid composite absorbent web according to Claim 52 wherein the absorbent composite web is between about 50 gsm and about 1500 gsm basis weight.
- 64. The airlaid composite absorbent web according to Claim 52 wherein the absorbent composite web comprises greater than or equal to about 2 weight percent thermoplastic binder fiber and less than or equal to about ninety eight weight percent particles of cellulose-coated superabsorbent.

- 65. The airlaid composite absorbent web according to Claim 64 further comprising between about 30 weight percent and about 85 weight percent cellulose-coated superabsorbent material.
- 66. The airlaid composite absorbent web according to Claim 52 further comprising at least one of non-coated superabsorbent materials, pulp fibers, synthetic fibers, odor control agents, and other natural or synthetic materials.
- 67. The airlaid composite absorbent web according to Claim 52 wherein the absorbent composite web has an absorbent capacity of between about 15 g/g and about 40 g/g.
- 68. The airlaid composite absorbent web according to Claim 52 wherein the composite absorbent web has a density of between about 0.1 g/cc and about 0.5 g/cc.
- 69. The airlaid composite absorbent web according to Claim 1 wherein the absorbent composite web further comprises a support member.

- 70. The airlaid composite absorbent web according to Claim 69 wherein the support member comprises at least one of a spunbond web, a meltblown web, a nonwoven web, a tissue web or a pulp web.
- 71. The airlaid composite absorbent web according to Claim 18 wherein the absorbent composite web further comprises a support member.
- 72. The airlaid composite absorbent web according to Claim 71 wherein the support member comprises at least one of a spunbond web, a meltblown web, a nonwoven web, a tissue web or a pulp web.
- 73. The airlaid composite absorbent web according to Claim 35 wherein the absorbent composite web further comprises a support member.
- 74. The airlaid composite absorbent web according to Claim 73 wherein the support member comprises at least one of a spunbond web, a meltblown web, a nonwoven web, a tissue web or a pulp web.
- 75. The airlaid composite absorbent web according to Claim 52 wherein the absorbent composite web further comprises a support member.

76. The airlaid composite absorbent web according to Claim 75 wherein the support member comprises at least one of a spunbond web, a meltblown web, a nonwoven web, a tissue web or a pulp web.